Urbanized area	Geographic center		Channel	Frequencies (megahertz)
	North latitude	West longitude		
Chicago, IL[3]	41° 52′ 28.1″	87° 38′ 22.2″	14	470–476
			15	476–482
Cleveland, OH[4]	41° 29′ 51.2″	81° 41′ 49.5″	14	470–476
			16	482–488
Dallas/Fort Worth, TX	32° 47′ 09.5″	96° 47′ 38.0″	16	482–488
Detroit, MI[5]	42° 19′ 48.1″	83° 02′ 56.7″	15	476–482
			16	482–488
Houston, TX	29° 45′ 26.8″	95° 21′ 37.8″	17	488–494
Los Angeles, CA[6]	34° 03′ 15.0″	118° 14′ 31.3″	14	470–476
			20	506–512
Miami, FL	25° 46′ 38.4″	80° 11′ 31.2″	14	470–476
New York/N.E. NJ	40° 45′ 06.4″	73° 59′ 37.5″	14	470–476
			15	476–482
Philadelphia, PA	39° 56′ 58.4″	75° 09′ 19.6″	19	500–506
			20	506–512
Pittsburgh, PA	40° 26′ 19.2″	79° 59′ 59.2″	14	470–476
			18	494–500
San Francisco/Oakland, CA	37° 46′ 38.7″	122° 24′ 43.9″	16	482–488
			17	488–494
Wash., DC/MD/VA	38° 53′ 51.4″	77° 00′ 31.9″	17	488–494
			18	494–500

[3] In the Chicago, IL, urbanized area, channel 15 frequencies may be used for paging operations in addition to low power base/mobile usages, where applicable protection requirements for ultrahigh frequency television stations are met.
[4] Channels 14 and 15 are not available in Cleveland, OH, until further order from the Commission.
[5] Channels 15 and 16 are not available in Detroit, MI, until further order from the Commission.
[6] Channel 16 is available in Los Angeles for use by public safety users.

[63 FR 68965, Dec. 14, 1998]

§ 90.305 Location of stations.

(a) The transmitter site(s) for base station(s), including mobile relay stations, shall be located not more than 80 km. (50 mi.) from the geographic center of the urbanized area listed in § 90.303.

(b) Mobile units shall be operated within 48 km. (30 mi.) of their associated base station or stations. Such units may not be operated aboard aircraft in flight except as provided for in § 90.315(i).

(c) Control stations must be located within the area of operation of the mobile units.

(d) Base and control stations shall be located a minimum of 1.6 km. (1 mi.) from local television stations operating on UHF TV channels separated by 2, 3, 4, 5, 7, and 8 TV channels from the television channel in which the base station will operate.

§ 90.307 Protection criteria.

The tables and figures listed in § 90.309 shall be used to determine the proper power (ERP) and antenna height of the proposed land mobile base station and the proper power (ERP) for the associated control station (control station antenna height shall not exceed 31 m. (100 ft.) above average terrain (AAT)).

(a) Base stations operating on the frequencies available for land mobile use in any listed urbanized area and having an antenna height (AAT) less than 152 m. (500 ft.) shall afford protection to co-channel and adjacent channel television stations in accordance with the values set out in tables A and E of this subpart, except for Channel 15 in New York, NY, and Cleveland, OH, and Channel 16 in Detroit, MI, where protection will be in accordance with the values set forth in tables B and E.

(b) For base stations having antenna heights between 152–914 meters (500–3,000 ft.) above average terrain, the effective radiated power must be reduced below 1 kilowatt in accordance with the values shown in the power reduction graph in Figure A, except for Channel 15 in New York, NY, and Cleveland, OH, and Channel 16 in Detroit, MI, where the effective radiated power must be reduced in accordance with Figure B. For heights of more than 152 m. (500 ft.) above average terrain, the distance to the radio path horizon will be calculated assuming smooth earth. If the distance so determined equals or exceeds the distance to the Grade B contour of a co-channel TV station, (Grade B contour defined